Part of 1014178 -007

308 Building/2A July 17, 2003



Document Processing Desk - 6(a)(2)
Office of Pesticide Programs - 7504C
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, NW
Washington, DC 20460-0001

RE:

FIFRA § 6(a)(2) Report Vikane* Gas Fumigant

EPA Registration Number: 62719-4 Active Ingredient: Sulfuryl Fluoride CAS Registry Number: 002699-79-8

DERBI Number: 129460

State: CA

Severity Category: H-C

Dow AgroSciences submits the following information in response to its understanding of the U.S. Environmental Protection Agency's interpretation of FIFRA § 6(a)(2). However, Dow AgroSciences has not concluded that this information regards an "unreasonable adverse effect on the environment" or that it is reportable under FIFRA § 6(a)(2).

Dow AgroSciences received the enclosed information regarding an alleged human exposure.

The Vikane* Gas Fumigant label states the following: "When fumigating, observe local, state and federal rules and regulations including such things as use of chloropicrin, clearing devices, positive-pressure self contained breathing apparatus, security requirements, and placement of warning signs: Extremely Hazardous Liquid and Vapor Under Pressure, Inhalation of Vapors may be Fatal." Under the "Preparation for Fumigation" section of the label, the use directions for structural fumigation state, "Remove from the structure to be fumigated all persons, domestic animals, pets – including fish and desirable growing plants." Also, under the Aeration and Reentry section of the label, use directions state, "...treated area must be aerated until the level of sulfuryl fluoride is 5 ppm or less, as measured by a detection device with sufficient sensitivity such as an INTERSCAN or MIRAN gas analyzer." Within this section of the label it further states, "Do not reoccupy fumigation site, i.e. building, ship, vehicle or chamber, nor move vehicle until aeration is complete."

If you wish to discuss this matter further, please call me.

Regards,

Shannon Bass

Global EH&S Product Leader

(317) 337-4983

Prepared by:

Krist/Speheger

Product Stewardship Administrator

(317) 337-4577

Enciosure -

*Trademark of Dow AgroSciences

Privacy information

DASL INITIAL INCIDENT TRACKING **FORM**

DAS PRODUCT(S) INVOLVED

Vikane

ACTIVE INGREDIENT

Sulfuryl Fluoride

REGISTRATION NUMBER

62719-004

OTHER PRODUCTS None known

DILUTION/CONCENTRATE

N/A

FORMULATION

N/A

DERBI NUMBER

SOURCE Outside

NAME

COUNTY/CITY/STATE

San Bernardino, California

TELEPHONE NUMBER

N/A

AGE 14 & 15 years of age

DATE OF INITIAL NOTIFICATION

May 8, 2003

DATE OF APPLICATION

Unknown

DATE OF INITIAL MEDICAL

TREATMENT

No medical records available at this time

OCCUPATIONAL INJURY

No

OCCUPATION N/A

HOME UNINHABITABLE

No

DISABLED No.

DEATH

No

PREGNANT No

INCIDENT CIRCUMSTANCES

Reportedly, after a residence was fumigated, one child entered the home to retrieve a cat. Allegedly, the child that entered the home handed the cat to the sibling. They claim that both children have developed Hodgkin's lymphoma.

TYPE OF APPLICATION

Fumigation

AMOUNT OF PRODUCT APPLIED

Unknown

PERSONAL PROTECTIVE EQUIPMENT

Unknown

LABEL DIRECTIONS FOLLOWED

Unknown

CERTIFIED PCC/LCG

Long's Termite and Fumigation

LOCATION WHERE INCIDENT OCCURRED

Residence

NUMBER OF PERSONS INVOLVED **

GENDER Unknown

ROUTE OF EXPOSURE

Not indicated

DURATION OF EXPOSURE

Not indicated

f no, why:

EXPOSURE TO SYMPTOMS

SYMPTOMS REPORTED

N/A

RESULTING DIAGNOSIS

Hodgkin's lymphoma

TYPE OF MEDICAL CARE FACILITY
ADDITIONAL INFORMATION
None at this time

No medical records available at this time





CORRELATION OF ALLEGED EXPOSURE TO PRODUCT None at this time.
COUNTER INDICATION OF CORRELATION OF ALLEGED EXPOSURE
None at this time.

Part of 2014178

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FIFRA § 6(a)(2) Report

Vikane* Gas Fumigant

EPA Registration Number: 62719-4 Active Ingredient: Sulfuryl Fluoride CAS Registry Number: 002699-79-8

DERBI Number: 129551

State: CA

Severity Category: H-C

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Regards,

Shannon Bass Global EH&S Product Leader (317) 337-4983

Enclosure

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Prepared by:

Kristi Speheger

Product Stewardship Administrator

(317) 337-4577



FIFRA § 6(a)(2) Global Adverse Effects Reporting Form

FIFRA § 6(a)(2) does not require investigation of alleged incidents. Please complete this form, to the best of your ability, with the knowledge you have on any incident without further investigation. However, if you receive additional information it is your responsibility to submit a supplemental report.

Send	completed	forms	to:
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Revised: 12/10/02

e-mail: aerc@dow.com

mail: Dow AgroSciences

9330 Zionsville Road Indianapolis, IN 46268

Attention: AERC-308 Building

Questions: Global AERC Administrator

(317) 337-4577

Page 1 of 5

Administrative Ir	itormati	on		
Your Name: Barb Snow	/den			
Date you became aware of the	e Incident:	(month/day/year)	06-06-03	
Reporter (person reportin	g incident to	you):		
Last Name:		First Name:	/ Company: The Termite Guy	
Street Address:				
City: San Clemente	State/0	Country: CA	92672	DERBI Repo If no, Date:
Telephone Number:				DERBI: Report: If no, w Date:
Contact Person (if differe	nt from the	Reporter)		why:
Last Name: same		First Name:		
Street Address:				13 S
City:	State/	Country:	Zip Code:	.
Telephone Number:				. ` `
Product Information				
Product(s) involved: Vi	kane gas fumi	gant		
U.S. EPA Registration Numb	per: 6271	9-4		
Exposed to concentrate prior	to dilution:	Yes	No X Unknown Alleged expo	sure
				-

Exposure Information

<u> </u>
Date of Exposure: May 27 th , 2003
Geographical location of exposure: Office building
How exposed?
Brief description of alleged incident:
The Termite Guy, called stating that a notified him of her alleged exposure to Vikane after a Vikane fumigation in her workplace. Her workplace is at Laguna Hills, CA, 92653. She alleges that she went back to her workplace, a Law Office, on May 27 th for a half a hour, experienced her throat closing up and left work. Alleges going to the emergency room. On May 28 th , she worked 6 hours, took an antihistamine. Went back to doctor. Mega Fume went to the office building and placed several fans to increase the circulation in the building. According to Mega Fume, the office building has no heavy load factor, only chairs, desks, etc. On June 2 nd she came back to work. Since then she claims she has been to an allergist, toxicologist, and pulmonary specialist. On Friday, June 6 th , she called at The Termite Guy, and asked if he turned her claims into his insurance company and he stated he was not going to do this. I spoke to her on June 11 th and again suggested that her doctors call the DAS 800 # and have her doctors talk to DAS. Her last comment was that she would consult with her boss, an attorney, as to what to do next.
Application Circumstances
Evidence label directions were not followed: Yes X No Unknown
Application was made by:
Pest Control Operator Lawn Care Operator Homeowner X Other Fumigation
Circumstances regarding application:
The fumigation was put up and shot on May 24 th , came down on May 26 th and certified for reentry on May26th. The tenants of the commercial structure came back to work on May 27 th . The structure was 330,000 cubic feet, 90 pounds of Vikane were shot, 22 ounces of chloropicrin were used. The chloropicrin was place din the corridors and not in each individual offices. Structural fumigation log was obtained from the fumigation company, Mega Fume, and is on file.
Type of incident: X Human Domestic Animal Fish/Wildlife (Fill out the appropriate attached page)
*** *** ***
Revised: 5/13/02 Page 2 of 5

Alleged Human Exposure

Clarify how many people are involved with	the alleged exposure:	One
Age, if known, adult or child: Age unknown	_	α Adult
Gender: Male X Female If	female, is she pregnant?	Yes No X Unknown
Occupation (if related to use of product):	Works in an Law Offic	е
Was protective clothing worn: Yes	X No	
How many workdays were lost due to illnes	s: Unknown	
Route of exposure: Skin E	ye	X Inhalation
Was alleged adverse effect a result of:	Suicide/Homicide	Attempted suicide/ X N/A homicide
Time between exposure and onset of sympto	oms: (hr/day/min)	Over 24 hours
Symptoms experienced: Closing of the	throat	
	hat she went to emergenc ry specialist and toxicolog	y room twice, then to an allergist, then to
Laboratory test results: (attach copy if av	ailable) Unknown	
Explanatory or qualifying information surro	unding the incident:	
		* * * * * * * * * * * * * * * * * * *

Revised: 5/13/02

Page 3 of 5 LMB

Treating Physician's Information

Last Name:	Declined to get this informatio or to have physician call DAS physicians or 1-800 number	First Name:	
Street Addre	ss:		
City:	State	Country:	Zip Code:
Telephone N	umber:		

Alleged Fish, Wildlife, Plant, or Non-Target Organism Exposure

Species affected:
Number of individuals per species:
List of symptoms or adverse effects:
Magnitude of the effect: (examples include: miles of stream, square area of terrestrial habitat)
If plant, plant type: (examples include: forest forage, orchard, home garden, ornamentals)
Pesticide method of application and rate:
Laboratory results: (attach lab report if available)
Description of the habitat and the circumstances under which the incident occurred:
Distance from treatment site to exposed site:
Explanatory or qualifying information surrounding the incident:

Revised: 5/13/02

Page 4 of 5



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DERBI Number: 129556

State: CA

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If you wish to discuss this matter further, please call me.

Regards,

Shannon Bass Global EH&S Product Leader (317) 337-4983

Enclosure

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Prepared by:

Product Stewardship Administrator

(317) 337-4577

See Incident Description

Row 1	ide all known, required information. If required data fie w l Reporter Name			Contact person			# 1of 3 Internal ID	
Administrative Data	Dr. Michael Shwayder		date.				1-8726076	
	Address			Address				
	Daniel Freeman Memor Inglewood California 90301	rial 333 North	Praire Ave					
I	Phone #			Phone #				
	Incident Status: Location and date of in Inglewood		date of incident	t Date registrant Was incident part of I became aware of		larger study? No		
	New	California 3/9/2003		incident. 6/9/2003				
Row 2	EPA Registration # (Pro	duct 1)	EPA Registration	on # (Product 2)	EPA F	EPA Registration # (Product 3		
Pesticide(s) Involved	62719-4							
••••••••••••••••••••••••••••••••••••••	A.I. (s)	A.I. (s)	A.I. (s	A.I. (s)				
	Sulfuryl Fluoride							
	Product 1 name	Product 2 Name		Produ	Product 3 Name			
	Vikane							
	Exposed to concentrate prior to dilution? No		Exposed to concentrate prior to dilution?		Exposed to concentrate prior to dilution?		ate prior to	
	Formulation	Formulation			Formulation			
Row 3	Evidence label			de home, yard,		of using prod	uct):	
	directions were not		strial, nursery/gre			mples include mixing/loading,		
Incident	followed? No		r, commercial tur		reentry, application, transpor			
Circumstances	Intentional misuse? No	(specify crop	ce, forest/ woods o) right-of-way (r		maintenance of application equipment, manufacturing/ formulating).			
	Applicator certified	highway)).			Other			
	PCO? Not applicable				Omer			
							If no, w	
	How exposed:						why:	
	(examples include						1 × 1	
	direct contact with treated surface,	}					1	
	ingestion, spill, drift,						12111	
	runoff)							



Brief description of incident circumstances.

6/9/2003 2:25:41 PM Hx: Patient lives on second story next to building tented and treated with Vikane. Patient's houseplants died and patient developed nausea, confusion and irritability. Sym have now resolved. Patient believes there was hole in tent allowing Vikane gas to escape and affect plants and himself.

MD has performed a literature survey for sym associated with Vikane and only found a JAMA 1987 article. He is requesting more information about possible sym and environmental fate of Vikane, specifically half-life of Vikane.

Rec: Provided sym information from Tox Summary and MSDS. Promised MD PROSAR will fax MSDS. Environmental half-life of Vikane varies from minutes to three days. Cannot explain how half-life varies with environment. Will contact company for clarification.

Given that patient was in detached apartment, physically not possibly for material to penetrate adjacent building in large enough quantities to product systemic effects. Also illness reported is not suggestive

Dow Agro will be contacted and either someone from there will contact you or they will provide information to us and we will contact you.

Left VM for Dr. Bronson

of exposure.

6/9/2003 2:31:23 PM Dr. Brownson called back. He stated he will call Dr. Shwayder later today and email information about that conversation to PROSAR.

6/13/2003 3:59:45 PM The following is from Dr. Bronson's FIFRA report.

Brief description of alleged incident:

6-9-03 PROSAR (case 1-872-6076) received call from Dr. Shwayder regarding his 50 yr old male patient who alleges inhalation exposure to Vikane 3 months ago when adjacent dwelling tented; the patient lives in 2nd story apartment. I called Dr. Shwayder 6-10-03; the patient alleges he was home ill prior to the incident & noted symptoms of GI upset, confusion, irritability but no respiratory irritation during time when adjacent dwelling was tented. Also complains that his house plants died. He was seen by Dr. Shwayder I week later with no symptoms and normal exam, normal routine labs (did not obtain serum fluoride). Dr Shwayder doubts significant exposure. I described the characteristics of Vikane, and pointed out that it is unlikely to rise to 2nd floor apartment. I emailed TIME A report and note to Dr. Shwayder, and indicated that I agree with him that significant exposure in the described situation is unlikely.



Voluntary Industry Reporting Form for 6(a)(2) Incident Information Involving Humans

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area. Page# 3of 3 Demographic information: Exposure route: Was adverse effect result of Was protective clothing worn Age: 50 Sex: Male suicide/homicide or attempted Unknown (specify)? Occupation (if relevant) suicide/homicide? No Not applicable If female, pregnant? Was exposure occupational? Time between exposure and onset of symptoms: DNQ No If yes, days lost due to illness: See Symptoms Type of medical care sought: List signs/symptoms/adverse effects If lab tests were performed, (examples include none, clinic, list test names and results (If available, submit reports) hospital emergency department, Nausea - Unable to determine , Agitated/irritable - Unable to private physician, PCC, determine, Confusion - Unable to determine hospital inpatient). None Reported **HCF** Exposure data: Amount of pesticide: Exposure duration: Weight: UNK Human severity category: HC This box can be used to provide any explanatory or qualifying information surrounding the incident. (add additional pages if necessary) Residence where patient resided was not attached to the dwelling that was treated with Vikane, therefore, there does not appear to be a physical means by which this patient could have been exposed to appreciably quantities of Vikane. Furthermore, the lack of mucosal irritation means that exposure to chloropicrin (and thus Vikane) did not occur. Internal ID# 1-8726076